

10/526753

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RVCW/ P28940PC	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, Item 5 below.	
International application No. PCT/GB 03/03894	International filing date (day/month/year) 08/09/2003	(Earliest) Priority Date (day/month/year) 07/09/2002
Applicant  ROYAL VETERINARY COLLEGE		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the International search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

## 4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

PHARMACEUTICAL KITS COMPRISING MESENCHYMAL STEM CELLS

## 5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

## 6. The figure of the drawings to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2  
☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/GB 03/03894

 A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A61K35/28 A61P19/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, MEDLINE, WPI Data, PAJ, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 80865 A (OSIRIS THERAPEUTICS INC) (1) 1 November 2001 (2001-11-01) page 4, line 26 -page 5, line 14; claims 7,26; example 1	1-20
X	WO 98 51317 A (OSIRIS THERAPEUTICS INC (2) ;UNIV CASE WESTERN RESERVE (US)) 19 November 1998 (1998-11-19) page 4, line 30 -page 5, line 9 page 6, line 1 - line 9 page 17, line 11 - line 21; claims 1,11,12	1-20
X	WO 01 26667 A (JAYANKURA MARC ;BOGGIONE (3) CHRISTOPHE (FR); BOYER OLIVIER (FR); KLAT) 19 April 2001 (2001-04-19) abstract page 6, line 31 -page 7, line 16; claims 1,4,23; example 5	1-20
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

9 December 2003

Date of mailing of the international search report

14/01/2004

Name and mailing address of the ISA

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Pilling, S

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/03894

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MACKENZIE TIPPI C ET AL: "Human mesenchymal stem cells persist and migrate to tissues of injury in the prenatal lamb recipient" BLOOD, vol. 96, no. 11 Part 1, 16 November 2000 (2000-11-16), page 763a XP009022560 42nd Annual Meeting of the American Society of Hematology; San Francisco, California, USA; December 01-05, 2000 ISSN: 0006-4971 the whole document	④ 1-20
X	WATANABE N ET AL: "Fate of donor bone marrow cells in medial collateral ligament after simulated autologous transplantation" MICROSCOPY RESEARCH AND TECHNIQUE 01 JUL 2002 UNITED STATES, vol. 58, no. 1, 1 July 2002 (2002-07-01), pages 39-44, XP009022518 ISSN: 1059-910X abstract Materials and Methods	⑤ 1-20
X	RINGE JOCHEN ET AL: "Stem cells for regenerative medicine: advances in the engineering of tissues and organs." DIE NATURWISSENSCHAFTEN. GERMANY AUG 2002, vol. 89, no. 8, August 2002 (2002-08), pages 338-351, XP001156686 ISSN: 0028-1042 abstract "Engineering of Tendon" on page 347	⑥ 1-20
X	WOO S L ET AL: "Tissue engineering of ligament and tendon healing." CLINICAL ORTHOPAEDICS AND RELATED RESEARCH. UNITED STATES OCT 1999, no. 367 Suppl, October 1999 (1999-10), pages S312-S323, XP009022530 ISSN: 0009-921X cited in the application abstract "Cell therapy" on page S319	⑦ 1-20
X	AWAD H A ET AL: "Autologous mesenchymal stem cell-mediated repair of tendon." TISSUE ENGINEERING. UNITED STATES JUN 1999, vol. 5, no. 3, June 1999 (1999-06), pages 267-277, XP009022533 ISSN: 1076-3279 abstract	⑧ 1-20

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03894

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0180865	A	01-11-2001	AU 5723601 A	07-11-2001
			CA 2405345 A1	01-11-2001
			EP 1276486 A2	22-01-2003
			WO 0180865 A2	01-11-2001
			US 2002005205 A1	17-01-2002
WO 9851317	A	19-11-1998	AU 7481098 A	08-12-1998
			EP 0989855 A1	05-04-2000
			WO 9851317 A1	19-11-1998
WO 0126667	A	19-04-2001	FR 2799371 A1	13-04-2001
			AU 7796300 A	23-04-2001
			EP 1092436 A1	18-04-2001
			WO 0126667 A1	19-04-2001